

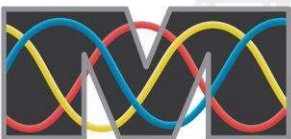
Meeting Agenda

Q3 Organizational Group Oversight Committee Meeting

September 21, 2022
1:00 p.m. to 3:30 p.m. Central Time

Hybrid Meeting

MRO Offices, St. Paul, MN, and Webex



**MIDWEST
RELIABILITY
ORGANIZATION**

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www.MRO.net

VIDEO AND AUDIO RECORDING

Please note that Midwest Reliability Organization (MRO) may make a video and/or an audio recording of this Organization Group Oversight Committee meeting for the purposes of making this information available to board members, members, stakeholders and the general public who are unable to attend the meeting.

By attending this meeting, I grant MRO:

1. Permission to video and/or audio record the board meeting including me; and
2. The right to edit, use, and publish the video and/or audio recording.
3. I understand that neither I, nor my employer, has any right to be compensated in connection with the video and/or audio recording or the granting of this consent.



AGENDA

Agenda Item	Time
1. <u>Call to Order, Determination of Quorum</u> <i>Paul Crist, OGOC Chair</i>	1:00 p.m.
2. <u>Standards of Conduct and Antitrust Guidelines</u> <i>Julie Peterson, Assistant Corporate Secretary and Senior Counsel</i>	---
3. <u>Consent Agenda</u> <i>Julie Peterson, Assistant Corporate Secretary and Senior Counsel</i>	---
4. <u>Compliance Monitoring and Enforcement Program Advisory Council Report</u> <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	1:05 p.m.
5. <u>Reliability Advisory Council Report</u> <i>Bryan Clark, Director of Reliability Analysis</i>	1:15 p.m.
6. <u>Security Advisory Council Report</u> <i>Steen Fjalstad, Director of Security</i>	1:25 p.m.
BREAK	1:35 p.m.
7. <u>Agenda for Q4 Annual Risk Meeting with Organizational Group Leadership</u> <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	1:45 p.m.
Written Reports	2:05 p.m.
8. <u>Quarterly Report on NERC Organizational Groups (Written)</u> <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	---
9. <u>Open Organizational Group Seats (Written)</u> <i>Julie Peterson, Assistant Corporate Secretary and Senior Counsel</i>	---
Executive Session	
10. <u>Risk Roundtable: Variable Transmission Line Ratings</u> <i>Paul Crist, OGOC Chair</i> <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	2:10 p.m.
11. <u>Annual HERO Award</u> <i>Paul Crist, OGOC Chair</i> <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	3:10 p.m.
12. <u>Other Business and Adjourn</u> <i>Paul Crist, OGOC Chair</i>	3:30 p.m.

Call to Order and Determination of Quorum
Paul Crist, OGOC Chair

Please review the [hybrid meeting logistics](#) to ensure a positive meeting experience to all meeting participants.

A current roster for the MRO Board Organizational Group Oversight Committee is posted on MRO's public website [here](#).

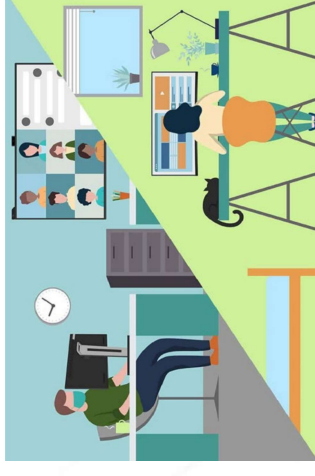
The board will follow these guiding principles during the conduct of its work:

Highly effective and reliable board members:

1. Support the MRO mission and its values, and understand the role of the board.
2. Exercise their fiduciary duty of care by preparing for, attending, and participating in board and assigned committee meetings. Absent compelling and stated reasons, directors should be present at meetings.
3. Are objective decision makers and avoid participation in board issues that are self-serving or may be perceived as a conflict of interest.
4. Read the materials before board meetings and come prepared with questions.
5. Advocate why MRO is important and why it needs our support.
6. Take leadership roles by chairing a committee and knowing what the committee's responsibilities are, and initiate, as necessary.
7. Respect the different roles of staff and the board.
8. Collaborate and cooperate with other board members.

In-Person Best Practices

- Connect to Webex without Audio and mute device(s)
 - Follow the printout for directions or ask Carolina for help
- Question or Comment?
 - Raise your hand either by physically raising your hand, or flipping your name card
 - Wait until the speaker calls on you to speak
 - Turn on your microphone (green is live)
 - ** Identify yourself before speaking **
 - Turn off your microphone (red is off)
- Be mindful of extraneous noises (e.g., papers, typing, side conversations, etc.)
- Honor start times



Webex Best Practices

- Mute unless speaking.
- Question or Comment?
 - Raise your hand via the Webex hand raise feature. To raise your hand, select the hand icon at the bottom of your Webex interface.
 - The Host will alert the speaker that your hand is raised.
 - The speaker will call on you.
 - Unmute your microphone.
 - Identify yourself before speaking.
 - Return to mute.
 - Lower your Webex hand once you no longer have a comment/question. To lower your hand, select the hand icon again.
- If you have audio issues, please let the Host know ASAP.



Standards of Conduct and Antitrust Guidelines
Julie Peterson, Assistant Corporate Secretary and Senior Counsel

Standards of Conduct Reminder:

Standards of Conduct prohibit MRO staff, committee, subcommittee, and task force members from sharing non-public transmission sensitive information with anyone who is either an affiliate merchant or could be a conduit of information to an affiliate merchant.

Antitrust Reminder:

Participants in Midwest Reliability Organization meeting activities must refrain from the following when acting in their capacity as participants in Midwest Reliability Organization activities (i.e., meetings, conference calls, and informal discussions):

- Discussions involving pricing information; and
- Discussions of a participants marketing strategies; and
- Discussions regarding how customers and geographical areas are to be divided among competitors; and
- Discussions concerning the exclusion of competitors from markets; and
- Discussions concerning boycotting or group refusals to deal with competitors, vendors, or suppliers.

Consent Agenda

Julie Peterson, Assistant Corporate Secretary and Senior Counsel

Action

Approve the consent agenda

Report

The consent agenda includes draft minutes from the June 22, 2022. The [draft minutes](#) are available for review on MRO's website. Please provide any comments or edits to julie.peterson@mro.net.

Compliance Monitoring and Enforcement Program (CMEP) Advisory Council Report
Richard Burt, Senior Vice President and Chief Operating Officer

Action

Information

Report

The Compliance Monitoring and Enforcement Program Advisory Council (CMEPAC) will meet for its third quarter meeting contemporaneously with the OGOC meeting on September 21, 2022 via Webex. The full meeting agenda can be found on MRO's public website [here](#).

For ready reference, topics on the agenda for the third quarter CMEPAC meeting will include:

- Conference Feedback/Attendance
- CMEPAC Monthly Call
- Regional Risk Assessment Drafting Input
- 2023 Nomination Process
- Diversity Presentation

CMEPAC Activities

Areas of Focus

1. Lessons learned and attendee feedback from 2022 Virtual CMEP Conference.
2. CMEPAC Monthly call currently has 146 registered for the calls. The August monthly call had 53 attendees and lasted for 27 minutes.
3. CMEPAC members will be assisting with the drafting of the MRO Regional Risk Assessment. Risk Assessment and Mitigation staff provided information on expectations for this upcoming project.
4. Setting expectations for the 2022 nomination process. The CMEPAC will have five open seats.

Accomplishments

1. Successfully hosted the 2022 Virtual CMEP Conference. The feedback received on the conference was very positive. There were over 350 attendees between in-person and virtual. Those in attendance included registered entities from across the ERO, not just MRO's footprint, as well as staff from Northeast Power Coordinating Council (NPCC), ReliabilityFirst (RF), North American Electric Reliability Corporation (NERC), and Federal Energy Regulatory Commission (FERC).

Challenges

1. The main challenge for the CMEPAC this year was providing webinars, due to CMEPAC member and MRO support staff resource constraints.

Reliability Advisory Council Report
Bryan Clark, Director of Reliability Analysis

Action

Information

Report

The MRO Reliability Advisory Council (RAC) met for its third quarter meeting on August 17, 2022, in person and via Webex. The in-person meeting was held at the MRO offices in St. Paul, Minnesota. The full meeting agenda packet can be found on MRO's public [website](#).

RAC Activities

Areas of Focus

1. 2022 Work Plan was reviewed with various action items updated accordingly
2. Annual Cold Weather Preparedness Workshop is scheduled for October 12, 2022. Three topic areas have been identified as follows:
 - a. Extreme Cold Weather Project 2021-07 – Matt Harward (SPP)
 - b. MDU April 2022 Winter Storm – Jake Zettel (MDU)
 - c. Manitoba Hydro Cold Weather Preparations – Allan Silk, Thomas Whynot and Jeffery Bloodworth (MH)
3. Assigned RAC members to NERC Representative groups for better alignment and to help promote outreach efforts
4. Reliability and Security Technical Committee (RSTC) Overview presentation was given by Stephen Crutchfield, Principal Technical Advisor and Coordinator for the RSTC, NERC

Accomplishments

1. Contributed two newsletter articles to MRO newsletter, *Midwest Reliability Matters*:
 - a. Highlights from MRO's 2022 Hybrid Reliability Conference
 - b. Managing Periods of Bulk Power System Instability
2. Held PRS Webinar on [Protection System Commissioning](#) in July 2022
3. Reviewed RAC charter and made minor updates
4. WAPA-UGPR provided a presentation on the Oahe Island Event from February 2021
5. Prepared for the MRO 2023 Regional Risk Assessment (RRA) with a robust discussion

Challenges

1. Hosting hybrid meetings and keeping council members engaged
2. Attracting interested individuals to fill the five vacant seats on the RAC
3. Ensuring the appropriate processes and tools are in place for supply adequacy
4. Performing maintenance on generation and transmission assets within limited timeframes

Security Advisory Council Report
Steen Fjalstad, Director of Security

Action

Information

Report

The Security Advisory Council (SAC) last met on June 22, 2022. All SAC meeting agendas and minutes are located [here](#).

SAC Activities

Areas of Focus

1. Planning and preparing for the MRO Security Conference and Technical Training scheduled for October 4-5, 2022
2. Hosting webinars and soliciting webinar ideas from members and entities.
3. Conducting roundtables on high priority security topics.
4. Establishing connections with various agencies and inviting those agencies to provide briefings at SAC meetings.
5. The MRO Security Advisory Council Threat Forum (SACTF) will continue supporting the weekly Threat Call and establish approaches to enhance the exchange, discussion, and collaboration of threat information.

Accomplishments

1. The SAC hosted four webinars in 2022 in accordance with the work plan:
 - a. Integrating OT Security with Physical and Cybersecurity SOC's held on March 24, 2022
 - b. Ransomware Playbook Design held on March 29, 2022
 - c. Supply Chain Effectiveness Survey Results held on April 12, 2022
 - d. Information Sharing & Public/Private Partnerships held on April 26, 2022
2. The SAC contributed a newsletter article to the MRO newsletter, *Midwest Reliability Matters: An Overview of Cyber Attack for Ransom (CAFR)*, by Michael Meason, Sr. Manager, Information and Security, Western Farmers Electric Cooperative, MRO SAC Vice Chair
3. The SACTF held 12 Threat Calls between June 1, 2022 and August 31, 2022. The Threat Call currently has about 276 approved registered individuals. The Threat Call lasts on average 19 minutes, and there is an average of 61 participants.
4. The SAC began working on the 2022 Annual Regional Security Risk Assessment (RSRA) and provided an initial report of top risks for inclusion in the annual RRA process. This work included surveys, threat briefings, and detailed breakout sessions with experts on physical, cyber, and operational risk in the MRO Region.

Challenges

1. Prioritizing the MRO SAC identified risks within the MRO SAC Work Plan for 2022
2. Maturing the work the SACTF is doing to include more than a weekly threat call
3. Attracting interested individuals to fill the 2 current, and eventually 4, vacant seats on the SACTF

Agenda for Q4 Annual Risk Meeting with Organizational Group Leadership

Richard Burt, Senior Vice President and Chief Operating Officer

Action

Discussion

Report

The fourth quarter OGOC meeting will be focused on reviewing the 2022 accomplishments of MRO's organizational groups and providing strategic direction for 2023 activities, with a focus on risks to reliability and security. The chair and vice chair of each of MRO's three advisory councils (CMEP, Reliability, and Security), accompanied by key MRO staff, will join the OGOC at this meeting for an interactive risk-based discussion and an opportunity to provide direct feedback to these organizational groups on their proposed 2023 work plans.

For the OGOC's consideration, the following pages show a draft 2022 Q4 annual risk meeting agenda. This agenda incorporates feedback provided by the OGOC at their 2022 Q1 meeting following 2021's annual risk meeting. Changes to this year's agenda include:

- Shortened time for report-backs from breakout groups and reallocated that time to the staff presentation of the results of the Regional Risk Assessment to allow more time for OGOC questions and for staff to provide an overview of *all* risks, not just those that are high.
- Expanded the second breakout session and included prioritization of work plan items as a topic.

DRAFT AGENDA FOR 2022 Q4 ANNUAL RISK MEETING

Agenda Item	
1. Call to Order and Determination of Quorum <i>Paul Crist, OGOC Chair</i>	5 minutes
2. Standards of Conduct and Antitrust Guidelines <i>Julie Peterson, Assistant Corporate Secretary and Senior Counsel</i>	
3. Consent Agenda <i>Julie Peterson, Assistant Corporate Secretary and Senior Counsel</i>	
4. Annual Review of Organizational Group Accomplishments <i>Terri Pyle, CMEPAC Chair</i> <i>Dick Pursley, RAC Chair</i> <i>Clayton Whitacre, SAC Chair</i> <ul style="list-style-type: none"> a. CMEP Advisory Council <ul style="list-style-type: none"> i. NERC Standards Review Forum ii. Subject Matter Expert Teams b. Reliability Advisory Council <ul style="list-style-type: none"> i. Protective Relay Subgroup ii. Special Protection System Working Group c. Security Advisory Council <ul style="list-style-type: none"> i. Security Threat Forum 	30 minutes
5. 2023 Regional Risk Assessment Results <i>Steen Fjalstad, Director of Security</i> <i>Mark Tiemeier, Principal Technical Advisor</i>	90 minutes
Break	15 minutes
6. Breakout Sessions to Discuss 2023 Areas of Focus for Organizational Groups <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	45 minutes
7. Breakout Session Reports <i>Breakout Session Leaders</i>	15 minutes
8. Review Proposed 2023 Advisory Council Work Plans <i>Terri Pyle, CMEPAC Chair</i> <i>Dick Pursley, RAC Chair</i> <i>Clayton Whitacre, SAC Chair</i>	30 minutes
Lunch Break	60 minutes
9. Breakout Sessions to Refine and Prioritize 2023 Advisory Council Work Plans <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	60 minutes
10. Breakout Session Reports <i>Breakout Session Leaders</i>	15 minutes

MRO OGOC Meeting Agenda – September 21, 2022

Agenda Item	
11. Summary and Next Steps <i>Richard Burt, Senior Vice President and Chief Operating Officer</i>	15 minutes
12. Other Business and Adjourn <i>Paul Crist, OGOC Chair</i>	

Quarterly Report on NERC Organizational Groups
Richard Burt, Senior Vice President and Chief Operating Officer

Action

Information

Report

Quarterly, MRO staff will update the OGOC regarding newly formed NERC organizational groups, and provide recommendations regarding whether to assign a sponsored representative or not, along with justification for the recommendation.

Since the OGOC's last meeting, there have been no changes to NERC organizational groups.

The current list of NERC organizational groups and MRO sponsorship is as follows. Each of the sponsored representatives submits a written report to an MRO Advisory Council on the current activities of the NERC group. Those reports can be found in the agenda packets for the advisory councils on [MRO's website](#).

- Groups with MRO-sponsored stakeholder representation:
 - Compliance and Certification Committee (CCC) – CMEPAC
 - Electric Gas Working Group (EGWG) – RAC
 - Energy Reliability Assessment Task Force (ERATF) - RAC
 - Facilities Ratings Task Force (FRTF) - CMEPAC
 - Inverter-Based Resource Performance Subcommittee (IRPS) - RAC
 - Project Management and Oversight Subcommittee (PMOS) - CMEPAC
 - Security Integration and Technology Enablement Subcommittee (SITES) - SAC
 - Security Working Group (SWG) - SAC
 - Standards Committee (SC) - CMEPAC
 - Supply Chain Working Group (SCWG) - SAC
 - System Planning Impacts from Distributed Energy Resources Working Group (SPIDERWG) - RAC
 - System Protection and Control Working Group (SPCWG) - RAC
- Groups without MRO-sponsored stakeholder representation:
 - 6GHz Task Force (6GHZTF)
 - Electromagnetic Pulse Working Group (EMPWG)
 - Energy Management Systems Working Group (EMSWG)
 - ERO Monitoring Subcommittee (EROMS)
 - Event Analysis Subcommittee (EAS)

- Failure Modes and Mechanisms Task Force (FMMTF)
- Load Modeling Working Group (LMWG)
- Organization Registration and Certification Subcommittee (ORCS)
- Performance Analysis Subcommittee (PAS)
- Probabilistic Assessment Working Group (PAWG)
- Real Time Operating Subcommittee (RTOS)
- Reliability Assessment Subcommittee (RAS)
- Resources Subcommittee (RS)
- Synchronized Measurement Working Group (SMWG)

Open Organizational Group Seats
Julie Peterson, Assistant Corporate Secretary and Senior Counsel

Action

Information (Written Report)

Report

Quarterly, MRO staff will share a list of open organizational group seats in order to maintain awareness to facilitate filling open seats outside of the normal nomination and elections cycle.

Open Seats		Term End
CMEPAC	1. NERC - Supply Chain Task Force	12/31/24
	2. NERC - Project Management and Oversight Subcommittee	12/31/24
NSRF	3. NSRF - Canadian Utility Sector	12/31/22
	4. NSRF - Canadian Utility Sector	12/31/24
	5. NSRF - Federal Power Marketing Agency Sector	12/31/24
	6. NSRF - Generator and/or Power Marketer Sector	12/31/22
RAC	<i>No Open Seats – Full Rosters</i>	
PRS	<i>No Open Seats – Full Rosters</i>	
SAC	7. NERC - Security Working Group (SWG)	12/31/24
SACTF	8. SACTF	12/31/24
	9. SACTF	12/31/24

Risk Roundtable: Variable Transmission Line Ratings

Paul Crist, OGOC Chair

Richard Burt, Senior Vice President and Chief Operating Officer

Action

Discussion

Reminder

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- Discussions concerning boycotting or group refusals to deal with competitors, vendors, or suppliers.

Report

Risk Roundtables provide an opportunity for OGOC members, industry representatives from MRO Advisory Councils, and MRO staff to discuss risks to reliability and security of the bulk power system (BPS) in a trusted setting. A secondary goal of these discussions is to identify opportunities for MRO organizational groups to address these risks.

At the previous OGOC meeting, Variable Transmission Line Ratings was identified as the topic for this quarter's Risk Roundtable. The following provides an outline and proposed questions for the roundtable discussion.

1. Introduction

- a. Introduction of the risk and format of discussion (Richard Burt, Senior Vice President and Chief Operating Officer)
- b. Overview of variable transmission line ratings and FERC Order 881 Managing Transmission Line Ratings Mark Tiemeier, Principal Technical Advisor)

2. Risk Roundtable Discussion (Facilitator: OGOC Chair, Paul Crist)

- a. What are the benefits and challenges to power system reliability of variable transmission line ratings?
- b. What are the incremental benefits of Ambient Adjusted Ratings (AARs) over static ratings, and Dynamic Line Ratings (DLRs) over AARs?

- c. Is there a benefit to reliability in early implementation of AARs prior to the required date in FERC Order 881, and is there an opportunity to prioritize Facilities for early adoption?
 - d. What challenges have companies had with implementing the different types of Variable Transmission Line Ratings, including Ambient Adjusted Ratings (AARs), Seasonal Ratings, and Dynamic Line Ratings (DLRs)?
 - e. Are there any regional nuances of this risk for the MRO region?
- 3. Is there an action item for MRO staff or an organizational group?**
- 4. Standing Question: What risk should we discuss at the next roundtable? For reference, the [high risks from the 2022 MRO Regional Risk Assessment](#) are the following:**
- a. Uncertainty of Winter Planning Reserve Margins
 - b. Generation Availability During Severe Cold Weather
 - c. Lack of Energy Assurance Assessments
 - d. Bulk Power System Modeling Accuracy
 - e. Supply Chain Compromise
 - f. Insider Threats
 - g. Malware/Ransomware

The following are some optional reference materials to review prior to our group discussion on variable transmission line ratings.

- [Summary of FERC Order 881](#) from the *Washington Energy Report*
 - The entire [Order 881](#) from FERC's website.
- "Overhead Transmission Line Ratings" risk description on pages 19-20 of the [MRO 2022 RRA](#).
- [Presentation by AEP](#) at the 2022 MRO Reliability Conference on implementing DLRs and AARs.
- "DLR and AAR Analysis and Comparison" MISO whitepaper on pages 38-45 of [MISO's comments to FERC on its transmission line ratings Notice of Proposed Rulemaking](#).

Annual HERO Award Nominees

Richard Burt, Senior Vice President and Chief Operating Officer

Action

Select 2022 HERO Award Recipient(s)

Report

In 2019, MRO staff worked with the OGOC to develop a volunteer recognition program to acknowledge individuals for their dedication, commitment, and contributions to the success of MRO. Part of this program recognizes MRO organizational group members that retire from service for their dedication and commitment. The other part of the program includes an annual HERO Award that recognizes individuals that have shown exemplary initiative and commitment to advancing the concept and principles of Highly Effective Reliability Organizations (HEROs) throughout the MRO region and in support of MROs vision and mission over the past year. The program was implemented in 2020; more information can be found [here](#).

MRO staff sent an announcement to MRO members and stakeholders soliciting nominations for the HERO Award. The nomination forms listing the candidates' qualifications are posted on [Boardvantage](#) for your review. Per the Volunteer Recognition Program, the MRO executive team, in consultation with the staff that support the organizational groups, reviews the HERO Award candidates and recommends three individuals to the OGOC for final selection at its third quarter meeting. I met first with the staff liaisons that support the organizational groups to discuss each candidate in detail. We reviewed the candidates' qualifications under the lens of the five HRO principles outlined in the Volunteer Recognition Program. I then obtained concurrence from the MRO executive team on our selections.

In closed session, the OGOC will select the recipient of the 2022 MRO HERO Award from the three finalists. The award recipient will be invited to the Annual Meeting of the MRO Members and Board of Directors on December 1, where he or she will be recognized by the OGOC Chair and executive staff, and will be provided a custom transmission tower award and plaque. That individual will have the opportunity to say a few words during the meeting.

Other Business and Adjourn

Action

Information

Report

Important Meeting Dates

Important meeting dates for 2022 and 2023 are provided below:

2022 Board Meeting Dates

- Nov 18, 2022 Special Q4 OGOC Meeting – Closed
- Nov 30, 2022 Joint OGOC & Advisory Council Leadership Annual Risk Meeting
- Dec 1, 2022 Q4 MRO Board of Director Meetings

2023 Board Meeting Dates

- April 12-13, 2023 Q1 MRO OGOC & Board of Director Meetings
- TBD Joint Board & FAC Business Plan & Budget Review Meeting
- June 14-15, 2023 Q2 MRO OGOC & Board of Director Meetings
- Sept 13-14, 2023 Q3 MRO OGOC & Board of Director Meetings
- TBD Special Q4 OGOC Meeting – Closed
- Nov 15, 2023 Joint OGOC & Advisory Council Leadership Annual Risk Meeting
- Nov 16, 2023 Q4 MRO Board of Director Meetings